Public Place contamination issues

The geological cross sections in the 2005 RI show the following:

A. B-B' Tar seems to be moving west to Smith Street and residential section. Shallow groundwater concentrations of 13,300 ppb BTEX and 7,670 ppb PAHs.

B. I-I' The cross-section shows tar west of the site (boring was on Smith Street). The cross section also shows tar at the property south of Huntington Street (former Quadrozzi property) at depths verified both by the Langan borings from a couple of years ago and EPA's ISS in canal data at that location.

C. F-F' and G-G'. These cross sections, that go through Parcel IV and a building north of Parcel II, show tar sources of concern upland and moving towards the canal north of the Public Place bulkhead. Parcel IV has not been included in the remediation plan.

D. C-C' and D-D' show tar sources of concern in both Parcels I and III beyond the depths of the current excavations.

E. E-E' delineates the tar sources remaining behind the bulkhead and at the north and south edges of public place and moving off-site.

NOTE 1. The shallow groundwater has been characterized by the Public Place RI as omnidirectional, i.e. with the potential to move off-site in all directions, depending on infiltration, tide conditions etc. The intermediate groundwater moves west and south west, towards residential areas. Since groundwater and liquid tar move through the same conduit of pores in the subsurface, we would anticipate similar off-site paths for the tar.

NOTE 2. GEI, in its RI report, has characterized the extent of tar presence of the subsoil depending on the amount of NAPL in the soil. From EPA's viewpoint all of the following characterization are considered as potential sources for movement of the tar and their manifestation in the canal water as sheens:
Tar saturated
Tar Staining Sheen
Lenses with tar saturation
Blebs, Globs, and Lenses

The characterization "Tar/Naphthalene Odors" might be relevant in considering vapor intrusion in future development of the site.

Redacted - Exemption 5 Deliberative Process